Brown and Caldwell Carson City, Nevada BORING LOG

Project Name: OU4 Phase 1 - Yerington Mine Evaporation Ponds Project Number: 136742									136742				
Soil	Soil Boring: Monitoring Well: Piezometer: Boring/Well Na							-LEF	P-03	Sheet <u>1</u> of <u>2</u>			
Boring Location: OU4 Lined Evaporation Ponds						Northing: 1556409.14				asting: 322294.79			
Drilling Contractor: WDC						Top of PVC Elevation: Ground Surface Elevation: 4349.13 feet amsl							
Drilling Equipment:Geoprobe										ate Finished: 10-06-08			
Drilling Method: Direct-Push						Completed Water Depth: 30 ft bgs Depth: 21 ft bgs							
Sampling Method: Continuous Core Driller: Rick Smedley						WELL CONSTRUCTION							
Well Seal: N/A Borehole Diameter:2"						Type and Diameter of Well Casing: N/A							
Logged By: P. Bassett Drilling Fluid: N/A						Slot Size: N/A Filter Material: Cement grout							
						W 1 -							
Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type I Location	Sample Type II Name	odilpo ijpo i codino	Lithology	Remarks				
5-	4345 —	ML-GW ML	GRAVEL with sand and silt (VLT Roadway) / SILT (Pond Sediments) (0 - 4) VLT from road/causeway mixed with pond sediment and some windblown (?) soil. In general, the silty pond sediments were dry, yellow and become saturated with depth; the VLT Subbase was classified as a gravel with sand and silt and was saturated (3/4"-minus crushed rock). GRAVEL with sand and silt (VLT Subbase) (4 - 5) Overlaid by thin, asphalt liner. Some gypsum crystals visible below the pond liner. Saturated. SILT with clay (Native Soil) (5 - 14) Moist, brown, dense. Sticky silt that is mouldable and plastic. Sample: OU4-LEP-03A-SC from 5-8 feet. Sample: OU4-LEP-03A-SG from 8-10 feet. Sample: OU4-LEP-03A-MW from 5-15 feet. Composite sample from 3 boreholes spaced 6 inches apart.	004-LEP-03A-SG 004-LEP-03A-SC 8		OU4.LEP-03A-MW	0 0 0		Method D-2488 (I grain-size determ based on the Unit System. Horizontal Survey Nevada State Pla zone, in feet. Sharp contacts in gradational contact and depths are bel otherwise. Type 1 Samples a geochemical and as well as ground	drilled cuttings based on ASTM 8 (the visual-manual procedure), rminations and nomenclature Unified Soil Classification vey data is expressed in the Plane system, Nevada West indicated by solid lines, stacts indicated by dashed line. below land surface unless stated as are representative of and geotechnical soil samples andwater samples.			
-	4335—	SM	Silty SAND (14 - 18) Well graded, fine-grained sand.										

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Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	: -	Sample Type I Name	Sample Type I Location	Sample Type II Name	sample Type II Location Lithology	Remarks				
	-		Sample: <u>OU4-LEP-03B-SC</u> from 15-18 feet.										
-	_		Sample: <u>OU4-LEP-03B-SG</u> from 18-20 feet.		OU4-LEP-03B-SC								
20-	- 4330 — -	CL	silty CLAY (18 - 21)		OU4-LEP-03B-SG								
<u>.</u> -	-	SP	SAND (21 - 25) Poorly graded, coarse-grained sand. Saturated at Sample: OU4-LEP-03-GW from 22-26 feet. Ground grab sample from hydropunch screen.	dwater									
- 25-	4325 — -	SM	Silty SAND (25 - 28) Fine-grained sand.		OU4-LEP03-GW	an,							
-	-	ML	SILT with clay (28 - 30) Dense and sticky.										
30-			Bottom of Borehole at 30 feet below ground surface.										
-	-												